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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force										Date: February 2016		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0207247F I AF TENCAP							
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	6.974	31.428	28.413	0.000	28.413	22.821	21.178	21.516	21.844	Continuing	Continuing
670001: Air Force TENCAP	-	6.974	31.428	28.413	0.000	28.413	22.821	21.178	21.516	21.844	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

In FY16, Project 670001, Air Force Tactical Exploitation of National Capabilities (TENCAP), Talon HATE effort will be completed.

**A. Mission Description and Budget Item Justification**

Air Force TENCAP increases warfighter effectiveness through the exploitation of national capabilities and promotes cross-domain integration of these capabilities into military operations/training, intelligence, surveillance and reconnaissance (ISR) activities.

AF TENCAP exploits existing air, space, cyber, national and global ISR, and Non-Traditional ISR (NTISR) for operational and tactical applications by rapidly prototyping and providing capability demonstrations. Projects are designed to transition to warfighters and/or national intelligence agencies for operational use, sustainment and appropriate acquisition Programs of Record for further development. AF TENCAP projects can influence the design and operation of current and future air, space, cyber, national and global ISR and NTISR while providing situational awareness to warfighters, national intelligence agency organizations and units.

Program consists of multiple small projects supporting one of the Air Force Core Function Mission Areas (CFMAs). Projects are executed to provide continued support to the National Warfighter, operational and Tactical Warfighter, and to Special Operations Forces.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget		5.812	31.428	24.197	0.000	24.197
Current President's Budget		6.974	31.428	28.413	0.000	28.413
Total Adjustments		1.162	0.000	4.216	0.000	4.216
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		1.162	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	4.216	0.000	4.216
Change Summary Explanation						
- FY15: \$1.162 reprogrammed into AF TENCAP PE to cover Talon HATE cost increases						
- FY17: \$4.5M add for "Classified Effort" and will be executed in "Exploitation Applications".						
- FY17: \$284K "Inflation rate reduction for Non-pay/non-fuel".						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2015	FY 2016	FY 2017
Title: Exploitation Applications				3.602	21.428	28.413
Description: Exploiting existing air, space, cyber, national and global ISR, and Non-Traditional ISR (NTISR) for operational and tactical applications by rapidly prototyping, demonstrating capability, and influencing the design and operation of future space, cyber, national and global ISR, and NTISR systems for tactical users.						
FY 2015 Accomplishments:						
- Continued rapid prototype development of the AF TENCAP Portfolio comprised of 30+ efforts (Talons) across the Air Force's twelve core function mission areas						
FY 2016 Plans:						
- Continuing to rapidly prototype projects and focus warfighter support and resource allocation based on AF TENCAP mission/ investment areas as a reflection of Air Force Core Function Mission Areas (CFMAs)						

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>										<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
- Continuing to execute projects which provide continued support to the National Warfighter, Operational and Tactical Warfighter, and Special Operations Forces  <b>FY 2017 Plans:</b> - Will continue to rapidly prototype projects and focus warfighter support and resource allocation based on AF TENCAP mission/ investment areas as a reflection of Air Force Core Function Mission Areas (CFMAs)  - Will continue to execute projects which provide continued support to the National Warfighter, Operational and Tactical Warfighter, and Special Operations Forces  - Will initiate "Classified Effort"												
<b>Title:</b> Talon HATE  <b>Description:</b> Talon HATE is a technology prototype to evaluate the military utility of a next-generation capability for the F-15C providing multi-domain information to tactical users. Talon HATE will provide a multi-domain environment for enhanced capability to the warfighter.  <b>FY 2015 Accomplishments:</b> - Continued development and testing of four multi-domain fused information pods on F-15s  <b>FY 2016 Plans:</b> - Completing development, testing, and fielding of four multi-domain fused information pods on F-15s  <b>FY 2017 Plans:</b> N/A										3.372	10.000	0.000
<b>Accomplishments/Planned Programs Subtotals</b>										6.974	31.428	28.413
<b>D. Other Program Funding Summary (\$ in Millions)</b>												
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>	
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	
<b>Remarks</b>												

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<b>E. Acquisition Strategy</b> Projects are selected based upon needs identified by the program's customers - DOD Departments, Combatant Commands, Components, MAJCOMs, and/or National Intelligence Agencies. Many projects are executed via existing contracts maintained by other agencies; others are executed via Air Force TENCAP contracts established with vendors responding to annual Broad Agency Announcements. The U.S. government organization sponsoring a project is responsible for assuming acquisition, deployment, logistics, sustainment and budgetary responsibilities for the developed capability after it has been successfully demonstrated by Air Force TENCAP.  AF TENCAP projects typically use an incremental acquisition strategy. AF TENCAP utilizes a disciplined systems engineering approach that allows program team to solve problems through a series of segments. Each increment has to be successful to pursue the following segment which mitigates cost and schedule risk.  Contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.		
<b>F. Performance Metrics</b> Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207247F / AF TENCAP				Project (Number/Name) 670001 / Air Force TENCAP					
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Exploitation Applications	Various	Various : Various	-	3.252	Dec 2014	20.178	Dec 2015	26.963	Dec 2016	0.000		26.963	Continuing	Continuing	TBD
Talon HATE	C/CPFF	Boeing/Various : Huntington Beach/ Various, CA	-	3.372	Mar 2015	9.500	Jan 2016	0.000	Feb 2016	0.000		0.000	Continuing	Continuing	-
Subtotal			-	6.624		29.678		26.963		0.000		26.963	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Oversight (PMA)	Various	Various : Various	-	0.350	Dec 2014	1.250	Dec 2015	1.450	Dec 2016	0.000		1.450	Continuing	Continuing	TBD
Program Support - Talon Hate	Various	Various : Various	-	0.000		0.500	Jan 2016	0.000		0.000		0.000	Continuing	Continuing	-
Subtotal			-	0.350		1.750		1.450		0.000		1.450	-	-	-
			Prior Years	FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	6.974		31.428		28.413		0.000		28.413	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force							Date: February 2016			
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	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207247F / AF TENCAP	<b>Project (Number/Name)</b> 670001 / Air Force TENCAP
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	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FY 2015 Exploitation Applications Developed																												
FY 2015 Exploitation Applications Tested, Evaluated, and Released																												
FY 2016 Exploitation Applications Developed																												
FY 2016 Exploitation Applications Tested, Evaluated, and Released																												
FY 2017 Exploitation Applications Developed																												
FY 2017 Exploitation Applications Tested, Evaluated, and Released																												
FY 2018 Exploitation Applications Developed																												
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FY 2019 Exploitation Applications Developed																												
FY 2019 Exploitation Applications Tested, Evaluated, and Released																												
FY 2020 Exploitation Applications Developed																												
FY 2020 Exploitation Applications Tested, Evaluated, and Released																												
FY 2021 Exploitation Applications Developed																												
Talon HATE Developed																												
Talon HATE Integrated/Tested																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force			<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207247F / AF <i>TENCAP</i>	<b>Project (Number/Name)</b> 670001 / Air Force <i>TENCAP</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FY 2015 Exploitation Applications Developed	1	2015	2	2016
FY 2015 Exploitation Applications Tested, Evaluated, and Released	2	2016	3	2016
FY 2016 Exploitation Applications Developed	1	2016	2	2017
FY 2016 Exploitation Applications Tested, Evaluated, and Released	2	2017	3	2017
FY 2017 Exploitation Applications Developed	1	2017	2	2018
FY 2017 Exploitation Applications Tested, Evaluated, and Released	2	2018	3	2018
FY 2018 Exploitation Applications Developed	1	2018	2	2019
FY 2018 Exploitation Applications Tested, Evaluated, and Released	2	2019	3	2019
FY 2019 Exploitation Applications Developed	1	2019	2	2020
FY 2019 Exploitation Applications Tested, Evaluated, and Released	2	2020	3	2020
FY 2020 Exploitation Applications Developed	1	2020	2	2021
FY 2020 Exploitation Applications Tested, Evaluated, and Released	2	2021	3	2021
FY 2021 Exploitation Applications Developed	1	2021	4	2021
Talon HATE Developed	1	2015	1	2016
Talon HATE Integrated/Tested	3	2015	4	2016